

Concrete Plant Production Mix Verification

Airport:	Date:
Illinois Project:	A.I.P. Project:
Producer Name:	Producer Number:
Mix Design Number:	

	Mix Design	1	2
Load/Ticket Number			
Batch Size (CYs)	1CY		
CA-Weight (lb.)		(a)	(a)
CA - % Moisture (Please enter as a decimal)		(b)	(b)
FA - Weight (lb.)		(c)	(c)
FA - % Moisture (Please enter as a decimal)		(d)	(d)
Free Water (lb.)		(e)	(e)
Added Water (gal.)		(f)	(f)
Total Water (gal.)		(g)	(g)
Cementitious			
Cement (lbs.)			
Flyash (lbs.)			
Total Cementitious	(h)	(h)	
Theo. W/C Ratio			
Actual W/C Ratio	(i)	(i)	
AEA (oz.)			
WRDA (oz.)			

Definitions

a = Total Coarse Aggregate Batch Weight (lb.)
 b = % Coarse Aggregate Moisture / 100 (Note: Use proper algebraic sign)
 c = Total Fine Aggregate Batch Weight
 d = % Fine Aggregate Moisture / 100 (Note: Use proper algebraic sign)
 f = Metered or Weighed Batch Water (gal.)
 h = Total Cement Batch Weight (lb.)

Formulas

$$e = (a - a/(1+b)) + (c - c/(1+d))$$

$$g = e/8.33 + f$$

$$i = (g * 8.33)/h$$

Resident Engineer _____